Title: Reusable Solutions For Aircraft Servicing
Inventor: Norden et al
Atty. Ref. No.: 7784-000203

Mark D. Elchuk, Harness Dickey & Pierce, (248) 641-1600

1/21

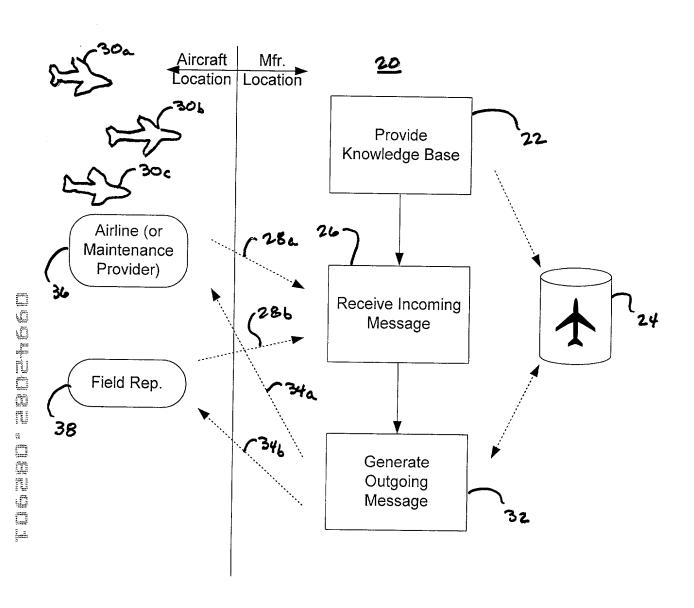


FIG. 1

Title: Reusable Solutions For Aircraft Servicing Inventor: Norden et al

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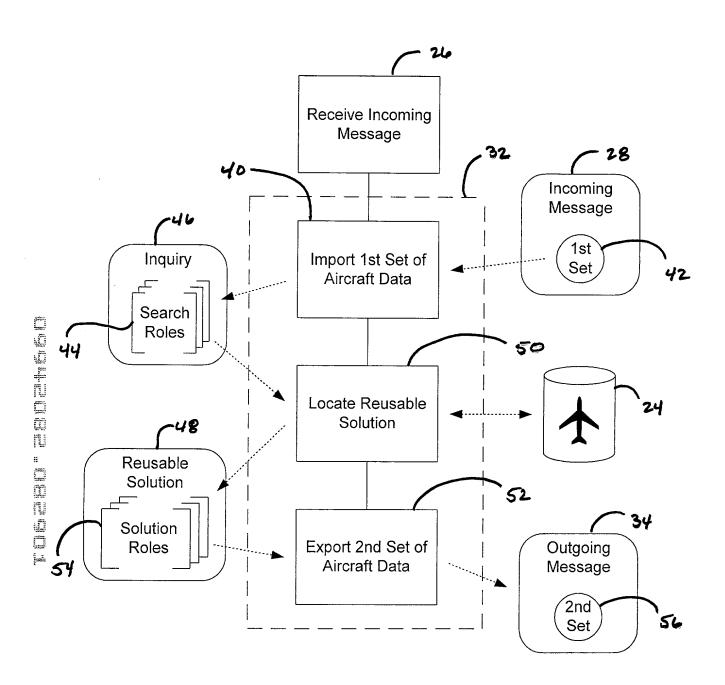
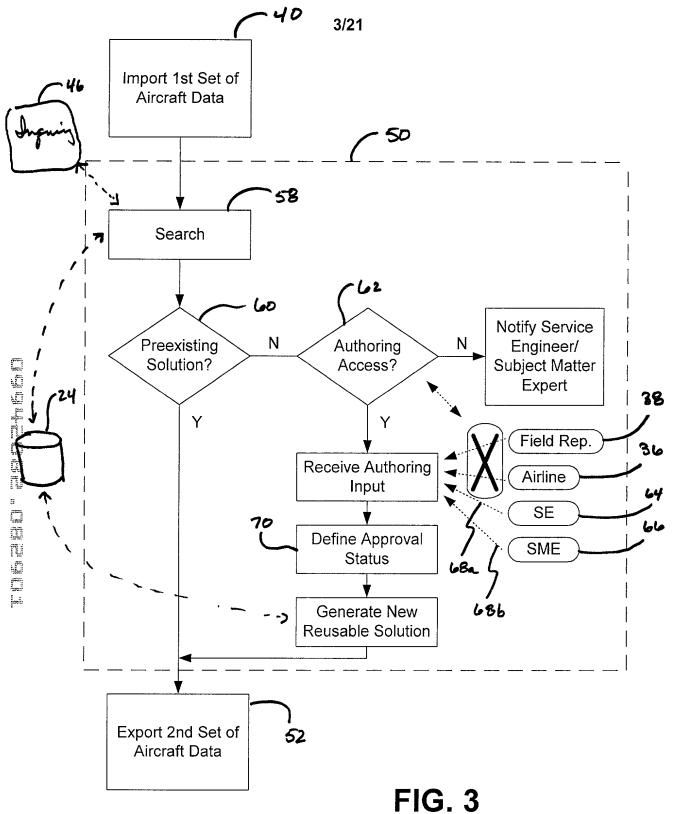


FIG. 2

Title: Reusable Solutions For Aircraft Servicing Inventor: Norden et al Atty. Ref. No.: 7784-000203

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4/21 44 Goals <u>Facts</u> 72 74 **Symptoms** Changes 78 FIG. 4 <u>54</u> Causes <u>Fixes</u> 80 82

FIG. 5

Title: Reusable Solutions For Aircraft Servicing Inventor: Norden et al

Atty. Ref. No. 2784-000203

Service Engineering

# Reusable Solutions



How To Use The Tool →

Tool Kit →

Primus Info →

Training Schedule \*

Integration with BOECOM

**Top Ten Questions** 

Structures Issues

Project Overview →

Go to Production Tool →



### Take a Guest Tour

6,143 solutions available 1,320 approved for SE statu 312 approved for Boeing/ Custome

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FIG.6

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This Tour gives you Read Access to the Production Data through a Guest account. Training is needed in order to effectively use the tool, but we are comfortable enough with the tool's intuitive nature and want you to see it first hand. The success of your search is subject to the limited amount of data currently in the tool. Contact Us if you have any questions.

User Name: Guest

Password: boeing (lower case)

Domain: bcsr@bcsrd (menu)

Place a significant amount of information in one or all Search Fields and select Search in upper left corner. Appropriately, Use the New Session and Logout buttons on the left.

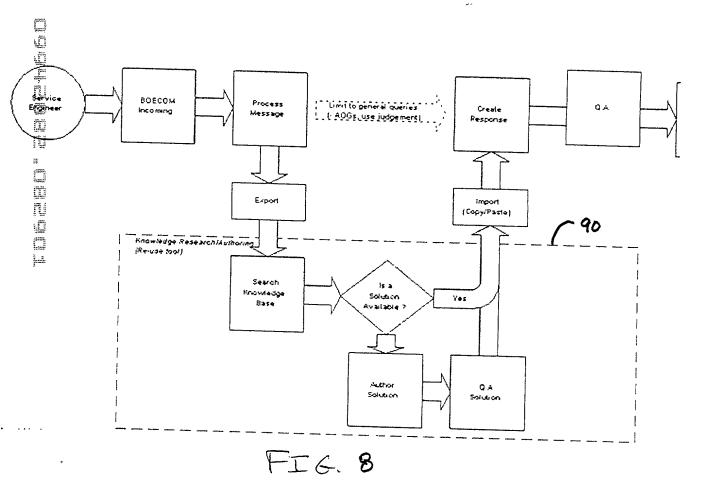
to Service Engineering Tool

to Field Service & Customer Tool

FIG. 7

f 1

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Title: Reusable Solutions For Aircraft Servicing

## PRIMUS

Inven@2 Norden et al Atty. Ref: No.: 7784-000203

A Goal statement is a clear statement of your customer's objectiveswhat the customer is trying to do or the question. Good Goals help the troubleshooting process. A Goal statement also serves as the solution's title. ALL SOLUTIONS MUST CONTAIN AT LEAST ONE GOAL

**Examples of Good Goal Statements** 

How to repair a 3-inch longitudinal crack on the P&W 4000 Goal:

engine nose cowl?

What are the operational restrictions to be followed for a "gear Goal:

down" dispatch?

Goal:

Resolution of electrical power loss condition.

Fact

Fact statements should be formal and detailed, including as much information as necessary to uniquely identify the product being described, such as: model, ATA, part number. Fact statements may also be clarifying statements that are 'constant'.

#### **Examples of Good Fact Statements**

Fact: Model: 747-400

Fact: ATA: 2161-00 Temperature Control Zone System

Fact: P/N: 60B92400-10 Fuel Boost Pump Pressure Switch

Fact: Condition occurred during landing

Facts Help Classify Problems

Do not put multiple Facts in a single statement.

Modify existing solutions to add new Facts as needed:

Symptom 5

Symptoms tell us what problems the customer is having. The conditions or events being observed that suggest or indicate something is discrepant (for example, flight deck effects, pilot reports).

Bon't create "compound statements"—keep the Facts out of the Symptoms if you can.

Symptom: Smoke coming out of the engine during landing on 737-200 approaching Singapore

Do:

Fact: Model: 737-200

Fact: Condition occurred during landing Symptom: Smoke coming out of the engine

Make the thoughts complete:

Symptom: No. 2 Engine smoking on startup.

Symptom: 3 inch crack on inboard midflap torque tube

Flight Deck Messages: <exact message text > Symptom: EICAS: AUTO SPEEDBRAKE

Symptom: CMC: 27-18830 GEAR TILT PRESSURE (L)

Ordering Symptoms

If your solution has multiple Symptoms, order them in the solution as follows:

More detailed first

Less detailed second

**Example of Good Symptom Statements** 

If a customer reports getting the message EICAS: FIRE CARGO

AFT on 747-400 and fire warning bell on:

Model: 747-400 Symptom: EICAS: FIRE CARGO AFT Symptom: Fire warning bell on

Mark D. Elchuk, Harness Dicker & Pierce, (248) 641-1600 Change

What has changed conty, or what maintenance actions were completed before to afformaly occurred? Not what was changed during the course of troubleshooting.

Think about what the customer may have done:

Change: Replaced actuator. Change: New wiring installed.

2. Changes are not the cause-don't confuse the two.

3. Do not jump to conclusions:

Change: The system worked before we installed a faulty processor

<u>Do:</u> Change: Installed a new processor card.

The Root Cause as the Key to Solutions

There should be only one cause per solution. If a solution has more than one possible Fix, is it the same problem or is it a similar problem? If it's the same problem, then its cause is identical. In this case, the solution may contain more than one Fix statement—but all Fix statements must be applicable.

If you must decide between applying one Fix statement or another (because only one will work), the solution should be split into two!

Share as many common statements as possible among

Add unique statements to differentiate solutions.



Fix statements are the resolution of the problem. They resolve the customer concern, or provide the answer to the question. Author the Fix as a stand alone

Add Notes within the Fix as needed to improve readability

or to identify its applicability If several steps must be performed in order, number the

Write using present tense.

steps.

If a Solution is long and refers to multiple documents, list them as named references within the Fix and use the named reference numbers within the fix.

Make sure these references are also recorded as Facts for the solution.

Use spaces to format the statement for readability.

Write everything as a present tense list of commands, as if you were reading them step-by-step to the customer.

Do not include "if-then" statements in Fixes. This is an indication that you have two separate solutions.

#### A Great Sample Solution

Goal: Repair heat damaged strut stringer.

Fact: P/N: 65B98746-12 STRUT STRINGER

Fact: Model: 747

Fact: JT9D-7 inboard engines

Symptom: Conductivity readings in excess of 39

Symptom: Heat damaged strut.

Cause: Bleed air valve leak Fix: 1. Reinforce the stringer with a nested angle

fabricated from 2024-T6, 0.125 min gauge.

2. Fasten with existing fastener locations.

3. Maintain 2D spacing and 1.4D edge margin

HTML Syntax used to link to files/solutions <a href="http://www.primus.com">linked Primus web site </a>

<a href="primus://:xxx###">tinked Solution </a> where xxx is the local prefix and ### is the number of the solution <a href="file://server address /directory/sub-directory(s)/file name and

extension">Linked Network file</a>

<img src="http://address with full file name and 'image type'</p> extension"> Rendering an image of a network file (jpg, gif, bmp, etc.) Tables: save table as an 'HTML' file, view in a browser, copy 'source' and paste into role (html)

#### STEPS TO CREATING A SOLN.

- 1. Search for an existing solution, use Matching statements to help. Only create a solution if you can not find an existing one.
- Open the Create New Solution Frame
- 3. Add statements, using diverse and appropriate statement roles as described here, but especially multiple symptoms and changes.
  - Be explicit. For example saying 'won't actuate' is unclear -what won't actuate? It is better to say: 'Leading edge flap drive unit won't actuate'.
  - Write using present tense.
  - In a 'fix' don't tell us what you did; tell us what to do in a step by step and complete
- Find matching statements, adding or replacing as applicable. It is very important to reuse existing statements for better search efficiency and higher quality solutions
- Optional: add hyperlinks to other solutions or
- 6. Check for duplicate solution: Select 'copy to problem description as Current Id'. If a similar or nearly duplicate solution exists, consider consolidating the two into one solution
- Be sure to have a **meaningful and useful** title. (comes from 1<sup>st</sup> goal, or as defined in 'properties')
- Check spelling
- Change default **Property** values as necessary. **Status** default is 'draft'. Set **Type** to either 'systems', 'structures', or 'non-technical'.
- 10.. Save the solution.

#### Properties - Status

Draft:

This is the default at time of initial creation and for work in progress. A Cause and Fix may or may not have been determined; additional data may be needed to complete the solution.

Review:

Solution contains a Fix (and cause if applicable) and is ready to be reviewed for content standards and technical correctness. Approved for SE Group: Solution has a Fix (and Cause if known), it has been reviewed and has undergone QA and is approved for use by the SE.

Approved for SE: As above, but approved for viewing by SE group SME.

Approved for Boeing:

As above, but approved for viewing by Boeing.

Approved for Customer:
As above, but approved for viewing by customers.

Return:

An approved solution requiring updating. Obsolete: Retained for background information.

Detailed Criteria for the "Approved" Status levels are provided on our web site under Approval Process, Solution Approval Criteria.

## Things you don't need to say!

Because each Primus application statement is assigned a role, certain phrases are unnecessary when writing statements:



"I want to," "The customer is trying to"

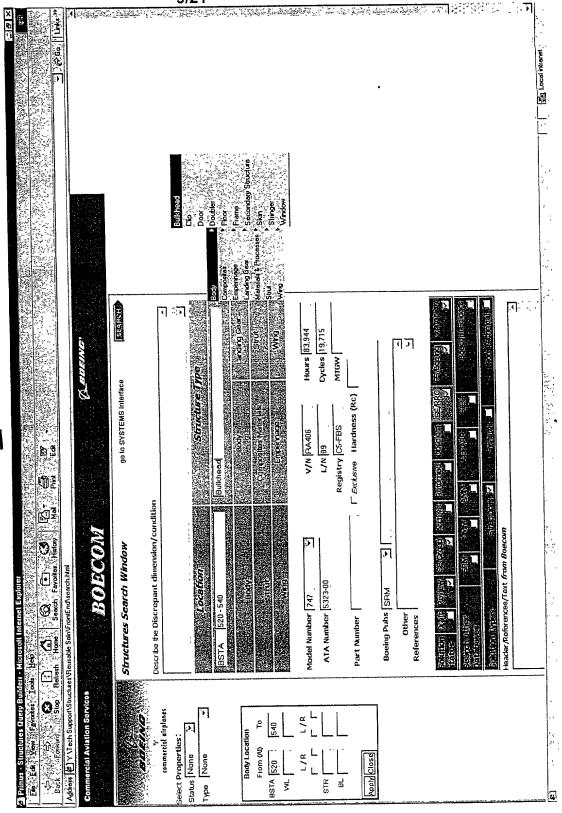


"The customer is using..."



"The customer is getting..."





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Inventor: Norden et al Atty. Ref. No.: 7784-000203

Mark D. Elghuk, Harness: Dickey. & Plerge, (248) 641-1600 1611 1611 1611 1611 1611 The second secon Previous | Close | Next Start New Solution from this Hardness (Rc) 54.2 Fix The refaxle is structurally acceptable for continued use. Nickel fill blends followed by chrome plate back to design OD (0 015 inch max thickness) Continue to process the part per CMM 32-00-05 in Notes | Archive | Revision History None 10/21 Cycles None MGTW Type: Structures L/N None Registration None Hours None Date Modified: 10/03/2000 Modified By: tjs0677 Return Solution for Review PM: 65B05133-13, center journal OD = 5730 blend(OD) = 0012 Rc = 542 FOR TEST ONLY Landing Gear / Model 747 / WLG / Truck Beam Assy, Complete / Axie / Center Journal Solution 1 of 2 Date Created: 10/03/2000 Title: P/N: 65B05133-13, center journal OD = 5 730 blend(OD) = 0 012 Rc = 54 2 FOR TEST ONLY Author: tjs0677 **B** 3 ohm 32-10-22 fig 405 circle 1 OD - design (Cr plated) = 5 7525/5.7535 ohm 32-10-21 fig 401a circle 1 OD - repair limit = 5.724 **1** \Structures\Reusable SoIn\FrontEnd\solution.html · Microsoft Internet E ohm 32-10-22 fig 405 circle 11  $\rm ID$  - design varies by part number ohm 32-10-21 fig 401a circle 11  $\rm ID$ ohm 32-10-22 fig 405 cırcle 12 ID - design = 4 520/4 540 ohm 32-10-21 fig 401a circle 12 ID Owner: Melnick Domain: besr Send ව Blend is located at the brake sleeve I truck interface Stop. Refersh. Home | Search Favorites Addiess (2) Y. V. Tech Support Structures \ Reusable Sohn Front End \ solution. html 3210-10, 3212-30, 3213-30 Boecom Folder 65B05133 JRNL DIM /1,11,12/ OD (1) Blend depth = 0.012Solution Class 4.X Searchable: Yes Part/Drawing Number 65B05133-13 Boecom Telex JAL-NRT-91-5087RE JAL-NRT-91-5017TE conjunction with OHM 32-10-22. Delete Airplane information V/IV None ID(11) = 4415D(12) = 4.536OD(1) = 5.730Sheet A Selected Solution Structure Type Status: Review D: bcsrd5664 Action File Attachment **Boeing Pub** Location Model Detail Detail Detail Detail Modify ATA Detail

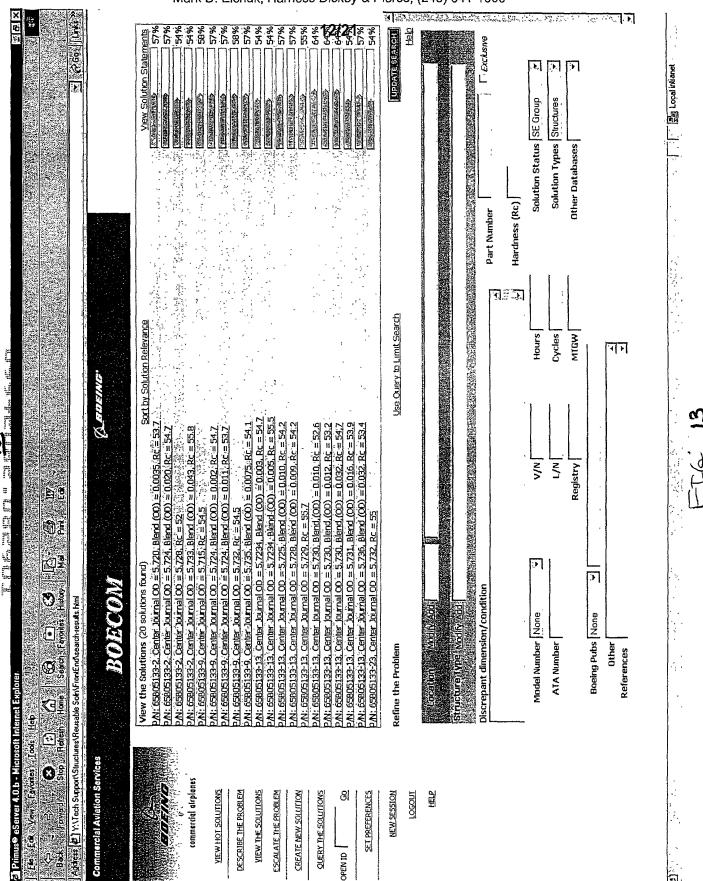
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Title: Reusable Solutions For Aircraft Servicing

Inventor: Norden et al Atty. Ref. No.: 7784-000203

Mark D. Elchuk, Harness Dickey & Pierce, (248) 641-1600



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Title: Reusable Solutions For Aircraft Servicing Inventor: Norden et al

Group:\* 14/21 Home Office: Field: Due Dates Repair by opening bore up by 0.060 and install a swaged sleeve Prep Date: Author\* 06=DEC-99 Rudolph Airline Support:\* Aluminum Spoiler Fitting Spherical Bearing Bore Corrosion BOECON Jype: Base: X Draft or Incoming Message Draft Message Number:\* FIS=06-DEC-99-D489 Action File Name \* FIS-06-DEC-99-D489 Model.\* Subject:

Draft Outgoing Message

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Title: Reusable Solutions For Aircraft Servicing Inventor: Norden et al

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Title: Reusable Solutions For Aircraft Servicing
Inventor: Norden et al
Atty. Ref. No.: 7784-000203

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Title: Reusable Solutions For Aircraft Servicing
Inventor: Norden et al

Previous | Close | Next During hot humid operations the pack will remove large amounts of water from the air. Under these environmental conditions, the Comments | History Copy to problem description as New | Current ID SOLVES PROBLEM BOECOM Export to 3. Blocked Low Limit Valve (LLV) sense lines resulting in the LLV not recognizing a icing condition. Therefore not opening to air conditioning system operation could result in (ACM) failures due to ice formation for the following possible reasons: 2. Dirty condenser / Reheater circuit resulting in reduced airflow could create a potential icing condition. 1. Clogged water separator drain lines backing the water up into the pack and causing Ichrg. The air conditioning system operation could result in ACM failures due to ice formation. Solution 1 of 1 Soperate Homes | Secretary Favorines Tristory Mail Fritting Edition Solution Power 02 Oct 2000 eServer 4.0.a - Air Conditioning Pack Air Cycle Machine Seizes, - Microsoft Internet Explorer Air Conditioning Pack Air Cycle Machine Seizes. Air Conditioning Pack Air Cycle Machine Seizes. Title: Air Conditioning Pack Air Cycle Machine Seizes. provide hot air to melt the ice build up. Here is information on your selected solution: Action File: ANZ-AKL-00-00197F Opening: ANZ-AKL-00-00197F Closing: ANZ-AKL-00-00374H Searchable: Yes Domain: bcsr Class: 4.X ATA: 2151-10 Model: 767 Selected Solution Show Properties ID: bcsrd49 Primus® eServer Symptom Symptom S Course 78 CO Modify D Fact D Fact Ø Fact S FAG D Fact VIEW THE SOLUTIONS 4 빞 යි 10001 VIEW HOT SOLUTIONS ESCALATE THE PROBLEM CREATE NEW SOLUTION **QUERY THE SOLUTIONS** SET PREFERENCES NEW SESSION DESCRIBE THE PROBLEM commercial airplanes OPEN 10

Export solution into Outgoing BOECOWHMessage

Title: Reusable Solutions For Aircraft Servicing
Inventor: Norden et al

Detall Hep not recognizing a icing condition. Therefore not opening to ANZ asked whether it is acceptable to operate the air conditioning packs on the ground with all cabin zone selectors at full cold during transits using the APU as the air source During hot humid operations the pack will remove large amounts of water from the air under these environmental conditions. Dirty condenser / Reheater circuit resulting in reduced all NTA 2015 - 10 HODEL 167 ARCHINE REMOVALS DUE TO SELZURES INEE (AT CONDITIONING PACK AIR (CVCLE MACHINE REMOVALS DUE TO SELZURES INEE /A) ANZ-AKL-00-00197F / C/ In reply to the Ref / A/message concerning "Air Conditioning Pac ANZ has reported experiencing an increased number of 767 air conditioning pack Air Cycle Machine (ACM) removals recently due to seizures and is evaluating these events to determine Yes it is acceptable to operate the air conditioning packs a any setpoint during ground APU operations. Clogged water separator drain lines backing the water up into the pack and causing icing. ATECYCLE Machine Removals due to Seizures ", the following is .Blocked Low Limit Valve sense lines resulting in the LLV Know. Base the arr conditioning system operation could result in ACM failures due to ite formation for the following possible Attch Please provide any comments that may assist ANZ in their Notes flow could create a potential icing condition Print provide hot air to melt the ice build up. evaluation of subject and the second Retain the reason for the recent ACM seizures. sexi & ANZ=AKI =00-00374H Dist. | Next ANZ+AKL-00=00197F Add to Folder X View Message reasons ransfer action: THE PERSON Fix will be copied to BOECOM Draft be passed from Primus tool when Outgoing BOECOM message: and BOECOM items will solution is used. automatically

FIG 17E